Amendment to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1-11. Cancelled.
- 12. (Currently Amended) An apparatus according sorting system according to claim—1045, wherein the sensors comprise photoelectric cells placed above and/or along the conveyor.
 - 13. Cancelled.
- 14. (Currently Amended) An apparatus sorting system according to claim_ 1045, wherein the sensors comprise laser sensors placed above and/or along the conveyor.
 - 15. Cancelled.
- 16. (Currently Amended) An apparatus sorting system according to claim 4045, wherein the sensors comprise photoelectric cells and/or laser sensors placed above and/or along the conveyor.
 - 17. Cancelled.
- 18. (Currently Amended) An apparatus sorting system according to claim 1045, wherein the stepping motor or servomotor comprises a preprogrammed control unit being adapted for utilizing the control signal from the sensors for determining a the pattern of motion and/or a the speed profile of the discharge arm.

- 19. Cancelled.
- 20. (Currently Amended) An apparatus sorting system according to claim 12, wherein the stepping motor or servomotor comprises a pre-programmed control unit being adapted for utilizing the control signal from the sensors for determining a-the pattern of motion and/or a-the speed profile of the discharge arm.

21. Cancelled.

22. (Currently Amended) An apparatus sorting system according to claim 14, wherein the stepping motor or servomotor comprises a pre-programmed control unit being adapted for utilizing the control signal from the sensors for determining a-the pattern of motion and/or a-the speed profile of the discharge arm.

23. Cancelled.

- 24. (Currently Amended) An apparatus sorting system according to claim 16, wherein the stepping motor or servomotor comprises a pre-programmed control unit being adapted for utilizing the control signal from the sensors for determining a-the pattern of motion and/or a-the speed profile of the discharge arm.
 - 25. Cancelled.
- 26. (Currently Amended) An apparatus sorting system according to claim 40 45, wherein the discharge arm is provided with a spoon-shaped front.
 - 27. Cancelled.
- 28. (Currently Amended) An apparatus sorting system according to claim 12, wherein the discharge arm is provided with a spoon-shaped front.

- 29. Cancelled.
- 30. (Currently Amended) An apparatus sorting system according to claim 14, wherein the discharge arm is provided with a spoon-shaped front.
 - 31. Cancelled.
- 32. (Currently Amended) An apparatus sorting system according to claim 16, wherein the discharge arm is provided with a spoon-shaped front.
 - 33. Cancelled.
- 34. (Currently Amended) An apparatus sorting system according to claim 18, wherein the discharge arm is provided with a spoon-shaped front.
- 35. (Currently Amended) A method for sorting <u>items on the conveyor with</u> the <u>system</u> by means of an apparatus according to claim <u>1045</u>, wherein the <u>sorting</u> of items on the <u>conveyor comprises</u> <u>comprising</u>:

the items are either weighed weighing and/or quality/type graded grading the items before being placed placement on the conveyor, or weighed weighing and/or quality/type graded grading the items on a first part of the conveyor; passing the items pass past the sensors placed above or along the conveyor; the sensors registering the size and/or lateral and longitudinal position of the items on the conveyor with the sensors, and at a same time, the sensors provide providing a central signal from the sensors to the control unit of the apparatus; before the items reach the discharge arm,

turning the discharge arm is turned from a passive position to an active angular position in relation to the conveying direction of the conveyor; and the discharge arm leads leading the items to a predetermined discharge position along the side of the conveyor with the discharge arm.

36. Cancelled.

37. (Currently Amended) A method for sorting <u>items on the conveyor with</u> the system by means of an apparatus according to claim 12, wherein the sorting of items on the conveyor comprises comprising:

the items are either weighed weighing and/or quality/type graded grading the items before being placed placement on the conveyor, or weighed weighing and/or quality/type graded grading the items on a first part of the conveyor; passing the items pass past the sensors placed above or along the conveyor; the sensors registering the size and/or lateral and longitudinal position of the items on the conveyor with the sensors, and at a same time, the sensors provide providing a central signal from the sensors to the control unit of the apparatus; before the items reach the discharge arm,

turning the discharge arm is turned from a passive position to an active angular position in relation to the conveying direction of the conveyor; and the discharge arm leads leading the items to a predetermined discharge position along the side of the conveyor with the discharge arm.

38. Cancelled.

39. (Currently Amended) A method for sorting <u>items on the conveyor with</u> the system by means of an apparatus according to claim 14, wherein the sorting of items on the conveyor comprises comprising:

the items are either weighed weighing and/or quality/type graded grading the items before being placed placement on the conveyor, or weighed weighing and/or quality/type graded grading the items on a first part of the conveyor; passing the items pass-past the sensors placed above or along the conveyor; the sensors registering the size and/or lateral and longitudinal position of the items on the conveyor with the sensors, and at a same time, the sensors provide providing a control signal from the sensors to the control unit of the apparatus; before the items reach the discharge arm,

turning the discharge arm is turned from a passive position to an active angular

position in relation to the conveying direction of the conveyor; and the discharge arm leads leading the items to a predetermined discharge position along the side of the conveyor with the discharge arm.

- 40. (Currently Amended) A method for sorting items on the conveyor with the system by means of an apparatus according to claim 15, wherein the sorting of items on the conveyor comprises comprising:
- 41. (Currently Amended) A method for sorting <u>items on the conveyor with</u> the system by means of an apparatus according to claim 16, wherein the sorting of items on the conveyor comprises comprising:

the items are either weighed weighing and/or quality/type graded grading the items before being placed placement on the conveyor, or weighed weighing and/or quality/type graded grading the items on a first part of the conveyor; passing the items pass-past the sensors placed above or along the conveyor; the sensors registering the size and/or lateral and longitudinal position of the items on the conveyor with the sensors, and at a same time, the sensors provide providing a control-signal from the sensors to the control unit of the apparatus; before the items reach the discharge arm,

turning the discharge arm is turned from a passive position to an active angular position in relation to the conveying direction of the conveyor; and the discharge arm leads leading the items to a predetermined discharge position along the side of the conveyor with the discharge arm.

42. Cancelled.

43. (Currently Amended) A method for sorting <u>items on the conveyor with</u> the system by means of an apparatus according to claim 18, wherein the sorting of items on the conveyor comprises comprising:

the items are either weighed weighing and/or quality/type graded grading the items before being placed placement on the conveyor, or weighed weighing and/or quality/type graded grading the items on a first part of the conveyor;

passing the items pass-past the sensors placed above or along the conveyor; the sensors registering the size and/or lateral and longitudinal position of the items on the conveyor with the sensors, and at a same time, the sensors provide providing a control signal from the sensors to the control unit-of the apparatus; before the items reach the discharge arm, turning the discharge arm is turned from a passive position to an active angular position in relation to the conveying direction of the conveyor; and the discharge arm leads leading the items to a predetermined discharge position along the side of the conveyor with the discharge arm.

- 44. (Currently Amended) A method according to claim-36_35, wherein a number of apparatuses are arranged at in a row along the a side of the conveyor and are operated by the sensors and by the control unit as a common control unit.
- 45. (New) A sorting system comprising an activating member, a fastener coupled to the activating member, and a discharge arm with an end part, the end part being pivotally connected with the fastener at a side of a conveyor, the activating member swinging the discharge arm between a passive position approximately parallel to a side of the conveyor and active angular positions relative a conveying direction of the conveyor, and sensors for providing signals for determining a lateral and longitudinal position of at least one item on the conveyor; and the activating member comprising an electrically driven stepping motor or servomotor including a control unit for determining a pattern of motion and/or speed profile of the discharge arm; and

wherein the control unit receives at least one signal from the sensors used for determining the lateral and longitudinal position of the at least one item on the conveyor.